

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: November 29, 2002, 11:40:52 ; Search time 12.679 Seconds
(without alignments)
916.637 Million cell updates/sec

Title: US-09-609-146-25

Perfect score: 2076

Sequence: 1 MGKLENASWIHDPLMKYLS.....GQSIHNTNLTAPCAGEVP 395

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

- 1: /cgn2_6/ptodata/1/iaa/5A_COMB.pap.*
- 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pap.*
- 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pap.*
- 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pap.*
- 5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pap.*
- 6: /cgn2_6/ptodata/1/iaa/backfiles.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|--------|-------------|--------|-------|-------------------|
| 1 | 1640.5 | 79.0 | 415 | 4 | US-09-545-944-2 |
| 2 | 465.5 | 22.4 | 364 | 4 | US-09-077-675A-16 |
| 3 | 465 | 22.4 | 353 | 4 | US-09-077-675A-3 |
| 4 | 463.5 | 22.3 | 361 | 4 | US-09-077-675A-8 |
| 5 | 463.5 | 22.3 | 366 | 4 | US-09-077-675A-13 |
| 6 | 437 | 21.1 | 410 | 3 | US-08-858-876A-2 |
| 7 | 437 | 21.1 | 410 | 4 | US-09-472-880-2 |
| 8 | 433.5 | 20.9 | 353 | 1 | US-08-118-270-45 |
| 9 | 433.5 | 20.9 | 353 | 5 | PCT-US93-08528-45 |
| 10 | 430.5 | 20.7 | 416 | 3 | US-08-858-876A-4 |
| 11 | 430.5 | 20.7 | 416 | 4 | US-09-472-880-4 |
| 12 | 427 | 20.6 | 410 | 4 | US-09-200-090-2 |
| 13 | 423 | 20.4 | 302 | 4 | US-09-077-675A-2 |
| 14 | 421.5 | 20.3 | 302 | 4 | US-09-077-675A-7 |
| 15 | 416 | 20.0 | 398 | 2 | US-08-288-663A-1 |
| 16 | 412 | 19.8 | 393 | 1 | US-07-629-1041-3 |
| 17 | 401.5 | 19.3 | 391 | 4 | US-09-200-090-4 |
| 18 | 400.5 | 19.3 | 400 | 3 | US-08-889-108-8 |
| 19 | 400.5 | 19.3 | 400 | 5 | PCT-US94-10358-8 |
| 20 | 399.5 | 19.2 | 384 | 2 | US-08-103-170-10 |
| 21 | 396.5 | 19.1 | 400 | 4 | US-09-351-198-2 |
| 22 | 396.5 | 19.1 | 400 | 4 | US-09-113-436-2 |
| 23 | 396.5 | 19.1 | 415 | 4 | US-08-405-271A-20 |
| 24 | 395.5 | 19.1 | 400 | 4 | US-08-188-275A-2 |
| 25 | 392 | 18.9 | 341 | 1 | US-08-118-270-48 |
| 26 | 392 | 18.9 | 341 | 5 | PCT-US93-08528-48 |
| 27 | 389.5 | 18.8 | 319 | 3 | US-08-832-399-2 |

| | | | | | | |
|----|-------|------|-----|---|-------------------|-------------------|
| 28 | 389.5 | 18.8 | 319 | 4 | US-09-372-498-2 | Sequence 2, Appli |
| 29 | 388.5 | 18.7 | 398 | 2 | US-08-288-663A-15 | Sequence 15, Appl |
| 30 | 380.5 | 18.3 | 411 | 1 | US-07-937-609-21 | Sequence 21, Appl |
| 31 | 380.5 | 18.3 | 411 | 4 | US-08-029-170-21 | Sequence 2, Appl |
| 32 | 380 | 18.3 | 391 | 2 | US-08-454-549-3 | Sequence 3, Appl |
| 33 | 380 | 18.3 | 391 | 3 | US-08-454-552-3 | Sequence 3, Appl |
| 34 | 380 | 18.3 | 398 | 1 | US-08-149-093A-5 | Sequence 5, Appl |
| 35 | 380 | 18.3 | 398 | 2 | US-08-911-245-5 | Sequence 5, Appl |
| 36 | 380 | 18.3 | 398 | 3 | US-08-889-108-2 | Sequence 2, Appl |
| 37 | 380 | 18.3 | 398 | 4 | US-08-120-601B-2 | Sequence 2, Appl |
| 38 | 380 | 18.3 | 398 | 4 | US-08-188-275A-3 | Sequence 3, Appl |
| 39 | 380 | 18.3 | 398 | 4 | US-08-387-707-16 | Sequence 16, Appl |
| 40 | 380 | 18.3 | 398 | 4 | US-09-510-473-5 | Sequence 5, Appl |
| 41 | 380 | 18.3 | 398 | 4 | US-09-351-198-3 | Sequence 3, Appl |
| 42 | 380 | 18.3 | 398 | 4 | US-09-113-426-3 | Sequence 3, Appl |
| 43 | 380 | 18.3 | 398 | 4 | US-08-405-271A-16 | Sequence 16, Appl |
| 44 | 380 | 18.3 | 398 | 5 | PCT-US94-10358-2 | Sequence 2, Appl |
| 45 | 374 | 18.0 | 391 | 3 | US-08-676-351-4 | Sequence 4, Appl |

ALIGNMENTS

RESULT 1
US-09-545-944-2
; Sequence 2, Application US/09545944
; Patent No. 6461836
; GENERAL INFORMATION:
; APPLICANT: AMES, ROBERT
; APPLICANT: ELSHOURBAGY, NABIL
; APPLICANT: MICHALOVICH, DAVID
; APPLICANT: SARAU, HENRY
; APPLICANT: SHABON, USMAN
; APPLICANT: VAWTER, LISA
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM RECEPTOR
; TITLE OF INVENTION: (AXOR34) AND SCREENING METHODS THEREOF
; FILE REFERENCE: GP70657-1
; CURRENT APPLICATION NUMBER: US/09/545,944
; CURRENT FILING DATE: 2000-04-10
; PRIOR APPLICATION NUMBER: US 09/435,384
; PRIOR FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 415
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
US-09-545-944-2

| | | | | | |
|-----------------------|-----|---|-----|--|--|
| Query Match | | | | | 79.0%; Score 1640.5; DB 4; Length 415; |
| Best Local Similarity | | | | | 79.1%; Pred. No. 1.9e-127; |
| Matches | | | | | 311; Conservative 35; Mismatches 42; Indels 5; Gaps 1; |
| Qy | 1 | MGKLENASWIH-----DPLMKYLSNTEYLAHLGCPKRSLSLPSVSAVAYALIFLVGMGN | 55 | | |
| Db | 4 | MEKLQNASWIYQQKLEDPFQKHLSNTEYLAFLGCPRRSHFFLPVSVVYVPIFVVGVI | 63 | | |
| Qy | 56 | LLVCMVIVRHOTLKTPTNYLPSLAVSDLLVLLGMPLIEYEMMHNYPLFGPVCYFKT | 115 | | |
| Db | 64 | VLVCLVLQHQMKTPNTNYLPSLAVSDLLVLLGMPLIEYEMMHNYPLFGPVCYFKT | 123 | | |
| Qy | 116 | ALFETVCFASILSVTVTSVERYVAIVHPFRAKLESTRRRALRILSLVMSFSVFSPLN | 175 | | |
| Db | 124 | ALFETVCFASILSVTVTSVERYVAIVHPFRAKLESTRRRALRILSLVMSFSVFSPLN | 183 | | |
| Qy | 176 | IHGKFKQHPFNGSSVPGSATCTVTKPMVYNYLIQATSFLLPYLPMTLISVLYYLMGL | 235 | | |
| Db | 184 | IHGKFKYFPNGSLVPGSATCTVIKPMWYNYLIQATSFLLPYLPMTLISVLYYLMGL | 243 | | |
| Qy | 236 | KRDESLEANKVAVNIHRPSKSVTKMLFVLVFAICWTPHVDRLPFSEVEEWTESLAA | 295 | | |
| Db | 244 | KDKSLEADENGANIQRPCRKSVMKMLFVLVFAICWTPHVDRLPFSEVEEWTESLAA | 303 | | |

Qy 160 SLVWSFSVVFSLPNTSIHGKIFQHFHPNGSSVPGSATCTVTK-----PMWVYNLI 209
Db 152 LVIVAVAFCSAGPIFVLGVGHEH---NGTDPDRTNECRATEFAVRSGLLTVWVWV----- 203
Qy 210 QATSFELFYLPMTLISVLYLMGLRLKRDESLKANKVAVNIHRPSRKSVTKMLFVLVLVF 269
Db 204 ---SSVFFFLPVFCLTVLYSLIGRLKLRKGEA-AVGSSLRDQNHKTQVKMLAVVVFAP 259
Qy 270 AICWTPFHVDRLFFS-FVEWETESLAAVFNLIHVGVFFVYLSAVNPPIIYNLSRRRRA 328
Db 260 ILCLWLPFHVGRYLFSGKLEPGSVEIAQISOYCNLVSVFLVFLYLSAAINPILYNIMSKYRV 319
Qy 329 A 329
Db 320 A 320
RESULT 4
US-09-077-675A-8
; Sequence 8, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077.675A
; FILING DATE: 3-JUN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-8
Query Match 22.3%; Score 463.5; DB 4; Length 361;
Best Local Similarity 34.9%; Pred. No. 9.8e-31;
Matches 106; Conservative 66; Mismatches 107; Indels 25; Gaps 7;
Qy 40 VSVAVALIFLVGMGNLVCWVIVRHOTLKTPTNYLFSLVASDLVLLGLGMPLEIYEMW 99
Db 41 VTATCVALLFVVGVIAGNLLTMLVSVRSRELRITNTNYLSMAFSDLLIFLC-MPLDLVRLW 99

Qy 100 HNYDFLQPVGCYFKTALFETVCFASILSVTTVSVERYVAIVHFRKLESTRRLRALRIL 159
Db 100 QYRWNFGDLCKLFQFVSESCYATVLTITALSVERYFAICFPLRAKVVVTKGRVKLVI 159
Qy 160 SLVWSFSVVFSLPNTSIHGKIFQHFHPNGSSVPGSATC-----TVTKPMVYNLI 209
Db 160 FVIWAVAFCSAGPIFVLGVGHEH---NGTDPDRTNECRPTFEFAVRSGLLTVWVWV----- 211
Qy 210 QATSFELFYLPMTLISVLYLMGLRLKRDESLKANKVAVNIHRPSRKSVTKMLFVLVLVF 269
Db 212 ---SSVFFFLPVFCLTVLYSLIGRLKLRKGEA-AVGSSLRDQNHKTQVKMLAVVVFAP 267
Qy 270 AICWTPFHVDRLFFS-FVEWETESLAAVFNLIHVGVFFVYLSAVNPPIIYNLSRRRRA 327
Db 268 ILCLWLPFHVGRYLFSGKLEPGSVEIAQISOYCNLVSVFLVFLYLSAAINPILYNIMSKYRV 327
Qy 328 AAFR 331
Db 328 AVFR 331
RESULT 5
US-09-077-675A-13
; Sequence 13, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077.675A
; FILING DATE: 3-JUN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 366 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-13
Query Match 22.3%; Score 463.5; DB 4; Length 366;
Best Local Similarity 34.9%; Pred. No. 9.9e-31;
Matches 106; Conservative 66; Mismatches 107; Indels 25; Gaps 7;

[illegible]

RESULT 8

US-08-118-270-45
Sequence 45, Application US/08118270
Patent No. 5508384
GENERAL INFORMATION:
APPLICANT: Murphy, Randall B.
APPLICANT: Schuster, David I.
TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
NUMBER OF SEQUENCES: 348
CORRESPONDENCE ADDRESS:
ADDRESSER: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/118,270
FILING DATE: 09-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,236
FILING DATE: 10-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Townsend, Kevin G.
REGISTRATION NUMBER: 34,033
REFERENCE/DOCKET NUMBER: MURPHY-2A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 353 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-118-270-45

Query Match 20.9%; Score 433.5; DB 1; Length 353;
Best Local Similarity 30.1%; Pred. NO. 2.8e-28;
Matches 102; Conservative 71; Mismatches 103; Indels 63; Gaps 12;

QY 40 VSVAYALIFLVGVGNLLVCMVIVRH---QTLKTPNYYLFSLAVSDLLVLLGLMPLEIY 96

| | | |
|----|-----|--|
| Db | 4 | VTAIYLALFVVGTVGNSVTAFTLARKKSLOSLOSTVHYHLLSSLALSDLLILLM---VELY 60 |
| Qy | 97 | E-MWHNYPFFLPGPVGC---YFKTALPETVTCFASILSVTTVSVSRYVAIVHPFRAKLESTR 152 |
| Db | 61 | NFIWH-HPWAFGGAGCGGYF---LRDACTYATLAVNASLSVRYLAICHPPFAKTLMSR 116 |
| Qy | 153 | RRALRIILSLVMSVSVFSLPNTSIHGFKOHPFGNSVPGSATCTVTKPMWVNLIIQAT 212 |
| Db | 117 | SRTKKPFISATWLASALLAIEMLFTLGJ---QNRSGDTHPGGLVCTPIVDVATVKKVIOVN 174 |
| Qy | 213 | SFIFYILPMTLIIIVLYYLMGLRLKRDSELEANKVAVNIHR----- 252 |
| Db | 175 | TPMSFLPMLVVISIL-----NTVIANKLTVMVHQAAQGRVCTVGTGNGLHST 223 |
| Qy | 253 | -----PSRSKSVTK---MLFVLVLVFAICWTCTPFHVDRLFPESVBEWSTESLAAVNLIHV 302 |
| Db | 224 | PNWKIEGRVQALRHGVILVRVAIVFVVCWLPY-----LCYISDEQWRFLPDPFYHFFYM 279 |
| Qy | 303 | VGSVFFYLLSAAVNPILYNLLSRFRFAAFRNWVSPTKWC 341 |
| Db | 280 | LTNALFVSSAINPILYNLSANFRGVFLSTLA--CLFC 316 |

RESULT 9

```

PCI-US93-08528-45
; Sequence 45, Application PC/TUS9308528
; GENERAL INFORMATION:
; APPLICANT: New York University
; TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
; TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
; NUMBER OF SEQUENCES: 348
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/08528
; FILING DATE: 09-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/943,236
; FILING DATE: 10-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, Kevin G.
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: MURPHY-2 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 353 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
PCT-US93-08528-45

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Query Match      20.9%; Score 433.5; DB 5; Length 353;
Best Local Similarity 30.1%; Pred. No. 2.8e-28;
Matches 102; Conservative 71; Mismatches 103; Indels 63; Gaps 12;

QY 40 VSVAYALIFLVGVGNGLVLLVMIVRH---OTLKPTNYVLFSLAVSDLLVLGMPLEIY 96
      |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db    4 VTAIYIALFVVGTGVNSVTFTLARKKSLOSOSTVHYHSSLSLDLLILW--VELY 60
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Qy 97 E-MHNNYFFLLGPGVGC---YFKTALFEVVCASLSTVTVSVEFYVAIVHFPKAKESTR 152
Db 61 NPIHH-HPMAWGDAQGCRGYF---LRDCAVTATLANVAASLSEVEYLAICHFPKAKTLMRS 116
Qy 153 RRALRIJLWVSFSVSVSLPMTSHIGIKFQHFPNGSSVPSGATCTVYKPMVNIILIQAT 212
Db 117 SRTKKFISAIWLASLLALIPMLFTLGL---QNRSGDGHPPGLVCTPIVDATYKVIQVN 174
Qy 213 SFLFYILPMTLISVLYXYLMDGLTKRDESLANKKVAVINHR-----252
Db 175 TFMGSLFFMLVYSIL-----NTVIANKTLVMWHQAEGRCVCTGHNHGLEHST 223
Qy 253 -----PSRKSVTK---MLFVLVLVPAICTPPHVDRLFESFVEEWTESLAAVENLIHV 302
Db 224 FNMRIEPRVQALRHGVVLRAVVIAFAVCMPLV---LCYISDEOWRTFLFDGYHYFYM 279
Qy 303 VSGVFYLLSSAVNPPIYVLLSRFPAAARVNVSPCTKMC 341
Db 280 LTNALFVYSSAINPIVLVNVASNRFQVLTSLA--CLFC 316

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RESULT 10
US-08-858-876A-4
; Sequence 4, Application US/08858876A

```

1  GENERAL INFORMATION:
2  APPLICANT: Daniel CAPUT
3  APPLICANT: Pascal CHALON
4  APPLICANT: Pascual FERRARA
5  APPLICANT: vica NATALIO
6  TITLE OF INVENTION: Type 2 Neurotensin Receptor
7  TITLE OF INVENTION: (INT-R2)
8  NUMBER OF SEQUENCES: 12
9  CORRESPONDENCE ADDRESS:

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1 COMPUTER READABLE FORM:
2 MEDIUM TYPE: Floppy disk
3 COMPUTER: IBM PC compatible
4 OPERATING SYSTEM: PC-DOS/MS-DOS
5 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
6 CURRENT APPLICATION DATA:
7 APPLICATION NUMBER: US/08/859,876A.
8 FILING DATE: 19-SEP-1997

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Db 99 YPWFVGDGCGGYF---VRELCAVATLVASVLSARCLAVGQPLFARLLPRRTRL 155
Qy 159 LSLVMSVSPVSLPNTSIGHIKQ-HEPNSSVPGSATCTVTPRMWYNIIGATSELY 217
Db 156 LSLVMSVSLGLAPMAVINGKEVESADSEPPASVCTVLVSRATLVQFIOVNVLSF 215
Qy 218 ILPMTLSVL-----YLMG-----LRLKDE----- 239
Db 216 ALPLATLAFNGITVNHLMVLVSQVPSASQVSIPLRELLSEEGILGITWRKTLSLG 275
Qy 240 ---SLEANKVAVNIHRESRSKSVTGMFLVLVLVAICWTPENVRLFFSFVEE--WTESLA 294
Db 276 VQASLVHRKASQIR--SLQSAQVLRAIVAVYVICMLPYHARLWVCYIPDDGMTNELY 333
Qy 295 AVENLNIHVSQVFVLSAVNPITLNISSRFAPAFNVVSPYCKMCH-----PRNHQ 348
Db 334 DPTVFWNTVTLTVSSAVTPIIYNVSSFKFLFIESIGSLGEGVSHLVLPQDEAF 392

RESULT 11
US-09-472-880-4
; Sequence 4, Application US/09472880
; Patent No. 627433

GENERAL INFORMATION:
APPLICANT: Daniel CAPUT
Pascal CHALON
Pascual FERRARA
Vita NATALIO
TITLE OF INVENTION: TYPE 2 Neurotensin Receptor
(INT-R2)

```

?      COMPUTER READABLE FORM:
?      MEDIUM TYPE: Floppy disk
?      COMPUTER: IBM PC compatible
?      OPERATING SYSTEM: PC-DOS/MS-DOS
?      SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO
?      CURRENT APPLICATION DATA:
?      APPLICATION NUMBER: US/09/472,880
?      FILING DATE: 28-Dec-1999
?      CLASSIFICATION: <Unknown>
?

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APPLICANT: Pai, Lee-Yuh
APPLICANT: Feigner, Scott C.
APPLICANT: Howard, Andrew D.
APPLICANT: Pong, Sheng-Shung
APPLICANT: Van Der Ploeg, Leonardus H.T.
TITLE OF INVENTION: RECEPTOR ASSAY
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: P.O. Box 2000, 126 E. Lincoln Ave.
CITY: Rahway
STATE: NJ
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/077,675A
FILING DATE: 3-JUN-1998
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cocuzzo, Anna L.
REGISTRATION NUMBER: 42,452
REFERENCE/DOCKET NUMBER: 19580P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 732-594-1273
TELEFAX: 732-594-4720
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 302 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-077-675A-7

Query Match 20.3%; Score 421.5; DB 4; Length 302;
Best Local Similarity 34.5%; Pred. No. 2,3e-27;
Matches 98; Conservative 62; Mismatches 99; Indels 25; Gaps 7;

QY 60 MVIYRQGLKTPNNYVLFSLAVSDLLVLLGMPLEIEMMHNVPFLGPGVCYKTLALFE 119
DB 2 LVVSRFRELRTTNLYLSSMAFSDLLFLC-MPLDLVRLMOYRPMFGDLCKLFOVSE 60
QY 120 TVCFASILSTVTVSVERVVAIVHPFRAKLBSTRRRRLRLISLWVSFSVPSLPTSIGHI 179
DB 61 SCYVATVLTITLALSVRYPAICFLRAKVVYTKGRVLTIVFWAIVAFCSAGPIFVLGV 120
QY 180 KQHPFNGSSVPGSATC-----TVTKPMVNYLLIIQATSFLYIIPMTLISLYY 229
DB 121 EHE---NGTDPMDTNECRPTTEFAVRSGILTVMVV-----SSIFFLPVFLCLTVLS 169
QY 230 LMGRLRKDSLSLANKVAVINHRPSKSVTKMLFVLVLVFAICTPPHVRLPFS-EVEE 288
DB 170 LIRKRLRRRRGDA-VVGASLRDQNHQYVMLVAVFAFLCLCPHVGRIYFSKSEF 228
QY 289 WTSGLAIVFNLIVHVGCVFYLSSAVNPDIYNLSRRFR-AAFR 331
DB 229 GSLEIAIOISQYCNVSVFLVFLSAINPILYNMSKRYRAVFR 272

RESULT 15
US-08-288-663A-1
Sequence 1, Application US/08288663A
Patent No. 587896
GENERAL INFORMATION:

APPLICANT: HINUMA, Shuji
APPLICANT: HOSOYA, Masaki
APPLICANT: ONDA, Haruo
TITLE OF INVENTION: HUMAN TRH RECEPTOR, ITS PRODUCTION
TITLE OF INVENTION: AND USE
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSMAN, LLP
STREET: 130 Water Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/288,663A
FILING DATE: 09-AUG-1994
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 198309/1993
FILING DATE: 10-AUG-1993
APPLICATION NUMBER: 286986/1993
FILING DATE: 16-NOV-1993
APPLICATION NUMBER: 325215/1993
FILING DATE: 22-DEC-1993
ATTORNEY/AGENT INFORMATION:
NAME: Resnick, David S
REGISTRATION NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 44612
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 398 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-288-663A-1

Query Match 20.0%; Score 416; DB 2; Length 398;
Best Local Similarity 31.5%; Pred. No. 8,7e-27;
Matches 114; Conservative 66; Mismatches 120; Indels 62; Gaps 11;

QY 33 RSDLSIPSVAVALLIV-----GWMGNLVCMYIVHQTLPNTNYVLFSLAVSDLLVL 88
DB 17 RAVVALEYQVITLLVLLIGLGIIVGINIMVVLVMTKMRPTNYLVLAVADLMVLV 76
QY 89 -LGMPL---EYEMMHNVPFLGPGVCYKTLALFEVCFASILSTVTVSVERVVAIVHPF 144
DB 77 AGLPNTDSIYSW-----VIGYVCLCITYIQYGINASSSTIAFTIERIALCHP 131
QY 145 RAKLBSTRRRRLRLISLWVSFSVPSLPTSIGHIKQHPFNGSSVPGSATCTVTKPMV 204
DB 132 KAQFLCTFSRAKKIIFVNAFTSLYCMWFELDLNISTYKDAIVI-----SCGYKISRNY 187
QY 205 YNIIQATSLFLYIIPMTLISLYYLMGRL-----KQDSLEANKVAV 248
DB 188 YSDIYLMDRGVFVYVEMIIATVLYGFIARILFLNPISPDKENSKTWKQDSTQNTNLV 247
QY 249 NHR-----PERSKVTKMLFVLVLPVPAICWTPFH---VDRLPFS--FVEEWTSGLAV 296
DB 248 WTSNRCPNSTVSRKQVTKMLAVVTLFALMLMPYRTLVAVNSFLSPQENM----- 300
QY 297 FNLIHVGCVFYLSSAVNPDIYNLSRRFRAFRNVVSPCTCKMCHPRHPOGPPAOKII 356
DB 301 ---FLFPCRICIYLNAINPVIYNLMSQKFRAR-----KLCNCKQKPTPEKPNYISV 350

Qy 357 PL 358
|
Db 351 AL 352

Search completed: November 29, 2002, 11:42:00
Job time : 13.679 secs

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GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: November 29, 2002, 11:40:52 ; Search time 13.321 Seconds
(without alignments)
916.637 Million cell updates/sec

Title: US-09-609-146-4

Perfect score: 2185

Sequence: 1 MSGMEKLNQASWIIYQKLED.....ALSSEQMSRTNYQSFHNKT 415

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pap.*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pap.*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pap.*
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5: /cgn2_6/ptodata/1/iaa/PTCUS_COMB.pap.*
6: /cgn2_6/ptodata/1/iaa/backfiles.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------------|
| 1 | 2162 | 98.9 | 415 | 4 | US-09-545-944-2 |
| 2 | 448 | 20.5 | 353 | 4 | US-09-077-675A-3 |
| 3 | 444 | 20.3 | 361 | 4 | US-09-077-675A-8 |
| 4 | 444 | 20.3 | 366 | 4 | US-09-077-675A-13 |
| 5 | 436.5 | 20.0 | 364 | 4 | US-09-077-675A-16 |
| 6 | 417.5 | 19.1 | 353 | 1 | US-08-118-270-45 |
| 7 | 417.5 | 19.1 | 353 | 5 | PCT-US93-08528-45 |
| 8 | 410 | 18.8 | 416 | 3 | US-08-858-876A-4 |
| 9 | 410 | 18.8 | 416 | 4 | US-09-472-880-4 |
| 10 | 405.5 | 18.6 | 398 | 2 | US-08-288-663A-1 |
| 11 | 402 | 18.4 | 302 | 4 | US-09-077-675A-2 |
| 12 | 398 | 18.2 | 302 | 4 | US-09-077-675A-7 |
| 13 | 398 | 18.2 | 410 | 3 | US-08-858-876A-2 |
| 14 | 398 | 18.2 | 410 | 4 | US-09-472-880-2 |
| 15 | 397 | 18.2 | 393 | 1 | US-07-629-1041-3 |
| 16 | 389 | 17.8 | 410 | 4 | US-09-200-090-2 |
| 17 | 377.5 | 17.3 | 398 | 2 | US-08-288-663A-15 |
| 18 | 365 | 16.7 | 369 | 1 | US-07-816-283-6 |
| 19 | 365 | 16.7 | 369 | 1 | US-08-417-103-6 |
| 20 | 365 | 16.7 | 369 | 1 | US-08-417-103-16 |
| 21 | 364.5 | 16.7 | 391 | 4 | US-09-200-090-4 |
| 22 | 358 | 16.4 | 369 | 2 | US-08-411-859-3 |
| 23 | 358 | 16.4 | 369 | 4 | US-08-387-707-9 |
| 24 | 358 | 16.4 | 369 | 4 | US-08-405-271A-9 |
| 25 | 358 | 16.4 | 400 | 4 | US-09-351-198-2 |
| 26 | 358 | 16.4 | 400 | 4 | US-09-113-426-2 |
| 27 | 358 | 16.4 | 415 | 4 | US-08-405-271A-20 |

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|----|-------|------|-----|---|-------------------|--------------------|
| 28 | 357 | 16.3 | 400 | 4 | US-08-188-275A-2 | Sequence 2, Appli |
| 29 | 356.5 | 16.3 | 319 | 3 | US-08-832-399-2 | Sequence 2, Appli |
| 30 | 356.5 | 16.3 | 319 | 4 | US-09-372-498-2 | Sequence 2, Appli |
| 31 | 356.5 | 16.3 | 352 | 4 | US-09-029-027B-2 | Sequence 2, Appli |
| 32 | 356 | 16.3 | 369 | 4 | US-08-120-601B-9 | Sequence 9, Appli |
| 33 | 355 | 16.2 | 400 | 3 | US-08-889-108-8 | Sequence 8, Appli |
| 34 | 355 | 16.2 | 400 | 5 | PCT-US94-10358-8 | Sequence 8, Appli |
| 35 | 353.5 | 16.2 | 394 | 4 | US-08-405-271A-22 | Sequence 22, Appli |
| 36 | 352.5 | 16.1 | 380 | 3 | US-08-676-351-5 | Sequence 5, Appli |
| 37 | 352.5 | 16.1 | 380 | 4 | US-08-188-275A-5 | Sequence 5, Appli |
| 38 | 352.5 | 16.1 | 380 | 4 | US-09-351-198-5 | Sequence 5, Appli |
| 39 | 352.5 | 16.1 | 380 | 4 | US-09-113-426-5 | Sequence 5, Appli |
| 40 | 351 | 16.1 | 384 | 3 | US-09-071-434-3 | Sequence 3, Appli |
| 41 | 351 | 16.1 | 389 | 4 | US-08-430-286A-7 | Sequence 7, Appli |
| 42 | 350.5 | 16.0 | 376 | 4 | US-08-387-707-17 | Sequence 17, Appli |
| 43 | 350.5 | 16.0 | 376 | 4 | US-08-405-271A-17 | Sequence 17, Appli |
| 44 | 350.5 | 16.0 | 380 | 4 | US-08-765-743-2 | Sequence 2, Appli |
| 45 | 349 | 16.0 | 369 | 1 | US-07-816-283-8 | Sequence 8, Appli |

ALIGNMENTS

RESULT 1
US-09-545-944-2
; Sequence 2, Application US/09545944
; Patent No. 6461836
; GENERAL INFORMATION:
; APPLICANT: AMES, ROBERT
; APPLICANT: ELSHOURBAGY, NABIL
; APPLICANT: MICHALOVICH, DAVID
; APPLICANT: SARAU, HENRY
; APPLICANT: SHABON, USMAN
; APPLICANT: VAWTER, LISA
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM RECEPTOR
; FILE REFERENCE: (AXOR34)
; CURRENT APPLICATION NUMBER: US/09/545,944
; CURRENT FILING DATE: 2000-04-10
; PRIOR APPLICATION NUMBER: US 09/435,384
; PRIOR FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 415
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
US-09-545-944-2

Query Match 98.9%; Score 2162; DB 4; Length 415;
Best Local Similarity 99.0%; Pred. No. 5.7e-195;
Matches 411; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

| | | | | |
|----|-----|----------------------|--|-----|
| Qy | 1 | MSGMEKLNQASWIIYQKLED | PFQKHLNSTEYLAPLCGPRRSHFPLPVSVVYVPIFVGVG | 60 |
| Db | 1 | MSGMEKLNQASWIIYQKLED | PFQKHLNSTEYLAPLCGPRRSHFPLPVSVVYVPIFVGVG | 60 |
| Qy | 61 | IGNVLVCLVILQHQAMKTP | NYLFSLAVSDLLVLLGMPLEVMENYBFLGPGVCY | 120 |
| Db | 61 | IGNVLVCLVILQHQAMKTP | NYLFSLAVSDLLVLLGMPLEVMENYBFLGPGVCY | 120 |
| Qy | 121 | FKTALFETVCASILSITTS | VERYVAILHFRKALQSTRRALRILGIVMGFSVLSLP | 180 |
| Db | 121 | FKTALFETVCASILSITTS | VERYVAILHFRKALQSTRRALRILGIVMGFSVLSLP | 180 |
| Qy | 181 | NTSINGIKHFYFPNGSLV | PGSATCTVIKPMIYNFIIQVTSFLFYLLPMTVISLVYLMA | 240 |
| Db | 181 | NTSINGIKHFYFPNGSLV | PGSATCTVIKPMIYNFIIQVTSFLFYLLPMTVISLVYLMA | 240 |
| Qy | 241 | LRLKDKSLEADEGNANTQ | RCRKSVMKMLFVLVLFVFAICWAPHIDRLPFSFVSEWSES | 300 |
| Db | 241 | LRLKDKSLEADEGNANTQ | RCRKSVMKMLFVLVLFVFAICWAPHIDRLPFSFVSEWSES | 300 |

QY 301 LAAVFNLVHVSGVFFYLLSSAVNPITINLSSRRFOAFONVSSPHKQMSHODPOLPPA 360
 DB 301 LAAVFNLVHVSGVFFYLLSSAVNPITINLSSRRFOAFONVSSPHKQMSHODPOLPPA 360
 QY 361 ORNIFTECHFEVLTEIDIGPQPCOSSMHNHSLPTALSSBQMSRTNYOSFHFNKT 415
 DB 361 ORNIFTECHFEVLTEIDIGPQPCOSSMHNHSLPTALSSBQMSRTNYOSFHFNKT 415

RESULT 2
 US-09-077-675A-3
 Sequence 3, Application US/09077675A
 Patent No. 6242199

GENERAL INFORMATION:
 APPLICANT: Pai, Lee-Yuh
 APPLICANT: Feighner, Scott C.
 APPLICANT: Howard, Andrew D.
 APPLICANT: Pong, Sheng-Shung
 APPLICANT: Van Der Ploeg, Leonardus H.T.
 TITLE OF INVENTION: RECEPTOR ASSAY
 NUMBER OF SEQUENCES: 16
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Merck & Co., Inc.
 STREET: P.O. Box 2000, 126 E. Lincoln Ave.
 CITY: Rahway
 STATE: NJ
 COUNTRY: USA
 ZIP: 07065-0900

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSeq for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/077,675A
 FILING DATE: 3-JUN-1998
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:

ATTORNEY/AGENT INFORMATION:
 FILING DATE:
 NAME: Cocuzzo, Anna L.
 REGISTRATION NUMBER: 42,452
 REFERENCE/DOCKET NUMBER: 19590P
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 732-594-1273
 TELEFAX: 732-594-4720
 TELEX:

INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 353 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-077-675A-3

Query Match 20.5%; Score 448; DB 4; Length 353;
 Best Local Similarity 34.3%; Pred. No. 3, 1e-34;
 Matches 104; Conservative 66; Mismatches 103; Indels 28; Gaps 7;

QY 48 VSVVYVPIFVGVIGVNLVCLVILQHOAKPTNYYLPSLAUSDLLVLLGMPLEYEMW 107
 DB 33 VTATCVALLFVGVIGAGNLLTMLVSRFRMRTTNLYLSSMAFSDDLIFLC-MPLDLFRLW 91
 QY 108 RNPFLPGPVGYCYKTKALFETVCFASLSTTTVSVERVYVALIHPFRKLQSTRRALRL 167
 DB 92 QYRPMWGNLCKLQFQVSSSCYATVLTITLALSVRYFALCFPLRAKVVTGKRVKLV 151
 QY 168 GIWGFVSLPNTSLHGKIFHYFPNGS-----LVGSACTVVIKEMWYNF 215
 DB 152 LVIMAVAFCSAGPIFVLVGE---HDNGTDPDRTNEGRATEFANRSGLLTYM--VMV--- 203

QY 216 IIVQTSFLPYLLPMTIVISVLYLMLRLKDKDSLDEAGNANIORPCRKSVNKMFLVLT 275
 DB 204 -----SSVFEPFVPCITLYLISLGRKLMRRKGEAAVC-SSLROONKQTYKMLAVVF 257
 QY 276 VPAICWAPHIDRLPES-FVEEMSESLAVFNLVHVSGVFFYLLSSAVNPITINLSSRRF 334
 DB 258 AFILCGLPFRVGRYLPESKSLPGSVIEIAQISQCNLVSFVLYLSMAINPILYNMSKXY 317

QY 335 QAA 337
 DB 318 RVA 320

RESULT 3
 US-09-077-675A-8
 Sequence 8, Application US/09077675A
 Patent No. 6242199

GENERAL INFORMATION:
 APPLICANT: Pai, Lee-Yuh
 APPLICANT: Feighner, Scott C.
 APPLICANT: Howard, Andrew D.
 APPLICANT: Pong, Sheng-Shung
 APPLICANT: Van Der Ploeg, Leonardus H.T.
 TITLE OF INVENTION: RECEPTOR ASSAY
 NUMBER OF SEQUENCES: 16
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Merck & Co., Inc.
 STREET: P.O. Box 2000, 126 E. Lincoln Ave.
 CITY: Rahway
 STATE: NJ
 COUNTRY: USA
 ZIP: 07065-0900

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSeq for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/077,675A
 FILING DATE: 3-JUN-1998
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:

ATTORNEY/AGENT INFORMATION:
 FILING DATE:
 NAME: Cocuzzo, Anna L.
 REGISTRATION NUMBER: 42,452
 REFERENCE/DOCKET NUMBER: 19590P
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 732-594-1273
 TELEFAX: 732-594-4720
 TELEX:

INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 361 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-077-675A-8

Query Match 20.3%; Score 444; DB 4; Length 361;
 Best Local Similarity 34.0%; Pred. No. 7, 5e-34;
 Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;

QY 48 VSVVYVPIFVGVIGVNLVCLVILQHOAKPTNYYLPSLAUSDLLVLLGMPLEYEMW 107
 DB 41 VTATCVALLFVGVIGAGNLLTMLVSRFRMRTTNLYLSSMAFSDDLIFLC-MPLDLVRLM 99
 QY 108 RNPFLPGPVGYCYKTKALFETVCFASLSTTTVSVERVYVALIHPFRKLQSTRRALRL 167
 DB 100 QYRPMWGNLCKLQFQVSSSCYATVLTITLALSVRYFALCFPLRAKVVTGKRVKLV 159

Qy 168 GIVMGFVLSPLNPTSINHGIKFHYFPNGS-----LVPGSATCTVIKPMWIYNF 215
Db 160 FVIWAVAFCSAGPIFVLGVGEHE---NGTDPWDTNECRPTFAVRSGLLTVM--VWV--- 211
Qy 216 IIQVTSFLFYLLPMTVISVLYLMALRLKKDKSLEADBNANIQRPCRSKSNKMLFVLVL 275
Db 212 -----SSIFFPLPVCLVLSLGRKLWRRRGDAVVG-ASLRDQNHKQTVKMLAVVVF 265
Qy 276 VFAICWAPFHIDRLFFS-FVEEMSSLAAVFNLVHVGVFFYLSAVNPPIYNLLSRRF 334
Db 266 AFILCWLPHVGRYLFKSPFSGSLTAQISQYCNLVSVFLFYLSAAINPILYNIMSKY 325
Qy 335 QAA 337
Db 326 RVA 328

RESULT 4

US-09-077-675A-13
; Sequence 13, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077,675A
; FILING DATE: 3-JUN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 366 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-13

Query Match 20.3%; Score 444; DB 4; Length 366;

Best Local Similarity 34.0%; Pred. No. 7.6e-34;

Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;

Qy 48 VSWVYFVGVGVGNVLVCLVILQHQAKTPTNYLFSLAVSDLLVLLGMPLEVYEW 107

Db 46 VTATCVALFVWGIAGNLLTMLVSVRFRELRITNTLYLSSMAFSDLLIFLC-MPLDLVRLW 104

Qy 108 RNYPLFGPVGYFKTALFETVCFASILSTTVSVRYVAILHHPRAKLOSTRRALRIL 167
Db 105 QYRWNGDGLLCKLFQVSESCYATVLTITALSVERYFAICFPLRAKVVVTKGRVKLVI 164
Qy 168 GIVMGFVLSPLNPTSINHGIKFHYFPNGS-----LVPGSATCTVIKPMWIYNF 215
Db 165 FVIWAVAFCSAGPIFVLGVGEHE---NGTDPWDTNECRPTFAVRSGLLTVM--VWV--- 216
Qy 216 IIQVTSFLFYLLPMTVISVLYLMALRLKKDKSLEADBNANIQRPCRSKSNKMLFVLVL 275
Db 217 -----SSIFFPLPVCLVLSLGRKLWRRRGDAVVG-ASLRDQNHKQTVKMLAVVVF 270
Qy 276 VFAICWAPFHIDRLFFS-FVEEMSSLAAVFNLVHVGVFFYLSAVNPPIYNLLSRRF 334
Db 271 AFILCWLPHVGRYLFKSPFSGSLTAQISQYCNLVSVFLFYLSAAINPILYNIMSKY 330
Qy 335 QAA 337
Db 331 RVA 333

RESULT 5

US-09-077-675A-16
; Sequence 16, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077,675A
; FILING DATE: 3-JUN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 364 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-16

Query Match 20.0%; Score 436.5; DB 4; Length 364;

Best Local Similarity 34.0%; Pred. No. 3.8e-33;

Matches 103; Conservative 68; Mismatches 103; Indels 29; Gaps 8;


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; LENGTH: 302 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-2

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Query Match 18.4%; Score 402; DB 4; Length 302;
Best Local Similarity 33.6%; Pred. No. 5.2e-30;
Matches 95; Conservative 64; Mismatches 96; Indels

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| Qy | 68 | LVTLOQAMKTPNNYLFSLASVDLLVLLGHPLEVYEMRWNPYFELPGVGVCFKTLALFE | 127 |
| Db | 2 | LVVSREFRMTTNNLYSSNAFSDLLIFLC-MPLDRLRWQYRPMNLGNLLCKLQFVSE | 60 |
| Qy | 128 | TVCFASIGLSITTVSERYVAIIHPHFRAKLQSTRRRALRLILGIWGFSLVFLPNTSIHGI | 187 |
| Db | 61 | SCITYATLITALSVERYFAICPLAKVVVTKGRVKLILVIWAVAFCSAGPIFVLGVV | 120 |
| Qy | 188 | KHYFPNGS-----LVPGSATCTVIKPMIYNPIIQVTSFGLFYLLPMTVISVL | 235 |
| Db | 121 | E---HDNGTDPDRDTECRATEFAVRSGLLTVM---VWV-----SSVFFFLPVCLCTVL | 167 |
| Qy | 236 | YILMALRLKKDKSLEADENANTQPCRKSVNKLFLVLVFAICWAPHIDRLRPS-FV | 294 |
| Db | 168 | YSLIGRLKWRKGEAAVG--SSLRDQNHQTKVKLAVVVFAFILCWLPHVGYLYFSKSL | 226 |
| Qy | 295 | EEWSESAAVFNLVHVGVGFYLLSSAVNPIIYNLLSRFQAA | 337 |
| Db | 227 | EPGSVBIAGIISOYCNLVSVFLYFLYSAINPIILYINIMSKYRVA | 269 |

RESULT 12

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US-09-077-675A-7
; Sequence 7, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Fastseq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077,675A
; FILING DATE: 3-JUN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:

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; LENGTH: 302 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-7

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Query Match 18.2%; Score 398; DB 4; Length 302;
Best Local Similarity 33.2%; Pred. No. 1.2e-29;
Matches 94; Conservative 64; Mismatches 97; Indels

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|----|-----|---|-----|
| Qy | 68 | LVLIOHQAMKTPNYILFSLAVSDLLVLLGHPLEVEYEWNRNYPFLPGVGVCFKTLPE | 127 |
| Db | 2 | LVSFRREFTTTNLYSLSSWAFSDLIFLC-MPLDLVRLWQYRPMNFGDLLCKLQFVSE | 60 |
| Qy | 128 | TVCFASTISITTVSERYVAIILPHPRAKLQSTRRRALRLIGTWGFSVLFSLPNTSIHGI | 187 |
| Db | 61 | SCITYATVLTITALSVERYFAICFLPRAKVVTGKRVKLVIFVIWAVAFCSAGPIFVLGV | 120 |
| Qy | 188 | KHYFPNGS-----LVPGSATCTVTKPMWIYNIITQVTSFLFYLLPMTVISVL | 235 |
| Db | 121 | EHE----NGTDPMWDTNECRTEFAVRSGLLTVM---VWV-----SSIFFFLPVFCCTL | 167 |
| Qy | 236 | YILMALRLKKDSLEADENANIQPCRKSVNKLFLVLVFAICWAPHIDRLFS-FV | 294 |
| Db | 168 | YSLIGRLWRRRGDAVVG-ASLRDQNHQTVKVLAVTVFAILCMLPHVGRYLFESKF | 226 |
| Qy | 295 | EWSSESLAAVFNILHVVGVSFFYLSSAVNPIIYNLSSRRFOAA | 337 |
| Db | 227 | EPGSLTAQISQYCNLVSFVLYLSAIIINPILYNIMSKKYRVA | 269 |

RESULT 13

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US-08-858-876A-2
; Sequence 2, Application US/08958876A
; Patent No. 6022856
; GENERAL INFORMATION:
; APPLICANT: Daniel CAPUT
; APPLICANT: Pascale CHALON
; APPLICANT: Pascual FERRARA
; APPLICANT: Vita NATALIO
; TITLE OF INVENTION: Type 2 Neurotensin Receptor
; TITLE OF INVENTION: (hnt-R2)
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jacobson, Price, Holman & Stern, PLLC
; STREET: 400 Seventh Street
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/858,876A
; FILING DATE: 19-SEP-1997
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR 9723204
; FILING DATE: 17-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Player, William E.
; REGISTRATION NUMBER: 31,049
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 410 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-858-876A-2

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; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-07-629-1041-3

Query Match      18.2%; Score 397; DB 1; Length 393;
Best Local Similarity 28.6%; Pred. No. 2.1e-29;
Matches 110; Conservative 72; Mismatches 104; Indels 98; Gaps 15;

Qy 18 LEDPQKHUNSTE-----EY-----LAFLCGPRRSHFELFVSVVYVPIFVVGVI 61
Db 1 MENDTVSENNQTELOPQAAVALEYQVVTILLVVIICG-----LGIV 41

Qy 62 GNVVLCLVILQHQMKTPNYVLFSLAUSDLLVLL-LGMPL---EYEMWRNYPFLFGPV 117
Db 42 GNIMVVLVVMRTKMRTPNCTNCLVSLAVADLMVLVAAGLPNITDSIYGSW-----VYGVV 96

Qy 118 GCFYKTFALFETVCFASILSITTVSVRYVAILHPFRAKLQSTRRRALRILGIVMGFSVLF 177
Db 97 GCLCITYLQYLGINASSCSITAFITERYIAICHPIKAQFLCTFSRAKKIIIFVWAFTSIY 156

Qy 178 SLPNTSIHGKIKHPFNGSLVPGSATC-----TWIKPMIYNFIQVTSFLFYLLPMTV 231
Db 157 CMLWFFLLDLNISTYKNVAVV---SCGYKISRNYVSPYI LMDFGV-----FYVVPML 206

Qy 232 ISVLYYLMA-----LRLKKDKSLEADeg-NANIQRPC-----RKSUNK 268
Db 207 ATVLYGFIARILFLNPISDPDKENSKMKNDSIHQNKNLNLNATNRCFNSTVSSRKQVTK 266

Qy 269 MLFVLVLVFAICWAPPH---IDRLFFS--FVEWSESAAVFNLVHVVGVPFFYLSSAVN 323
Db 267 MLAVVVILFALLMMPYRTLVVNSFLSSPFQENW-----FLLFCRICIYLNAIN 316

Qy 324 PIYNLLSRRFOAFQNVISSEPHK 347
Db 317 PVYINLMSOKFRAFRKLCNCCKQK 340
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Search completed: November 29, 2002, 11:41:59
Job time : 15.321 secs

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